

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/607,611
		Filing Date	June 27, 2003
		First Named Inventor	RAVKIN et al.
		Art Unit	1742
		Examiner Name	Wilkins III, Harry D.
		Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ HW	A	2002/0121290 A1	09/05/02	Tang et al.	
	B	2003/0091754 A1	05/15/03	Chihani et al.	
	C	2003/0092264 A1	05/15/03	Shinji et al.	
	D	2004/0060573 A1	04/01/04	Woods	
	E	2004/0069319 A1	04/15/04	Boyd et al.	
	F	2004/0069329 A1	04/15/04	de Larios et al.	
	G	2004/0136494 A1	07/15/04	Lof et al.	
	H	2004/0178060 A1	09/16/04	Ravkin et al.	
	I	2004/0182422 A1	09/23/04	Boyd et al.	
	J	2005/0132515 A1	12/18/03	Boyd et al.	
	K	2005/0139318 A1	06/30/05	Woods et al.	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
HW ↓ ↓ ↓ HW	L	EP 0 905 746 A1	3/31/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>
	M	EP 0 905 747 A1	3/31/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>
	N	EP 1 489 461 A1	12/22/04	ASML Netherlands B.V.		<input type="checkbox"/>
	O	EP 1 489 462 A2	12/22/04	ASML Holding N.V.		<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
HW	P	J.A. Britten, "A moving-zone Marangoni drying process for critical cleaning and wet processing," October, 1997, <i>Solid State Technology</i>
HW	Q	OWA et al. "Immersion lithography; its potential performance and issues", Proceedings of the SPIE, SPIE, Bellingham, VA, US, Vol. 5040, No. 1, February 28, 2003, pages 724-733, XP002294500

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/607,611
				Filing Date	June 27, 2003
				First Named Inventor	RAVKIN et al.
				Art Unit	1742
Examiner Name	Wilkins III, Harry D.				
Sheet	2	of	6	Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW	A	2005/0145265 A1	07/07/05	Ravkin et al.	
↓	B	2005/0145267 A1	04/01/04	Korolik et al.	
↓	C	2005/0145268 A1	04/01/04	Woods	
↓	D	2005/0148197 A1	04/01/04	Woods et al.	
↓	E	2005/0217703 A1	10/06/05	O'Donnell	
↓	F	2006/0064895 A1	03/30/06	Garcia et al.	
↓	G	3,953,265	04/27/76	Hood	
↓	H	4,086,870	05/02/78	Canavello et al.	
↓	I	4,444,492	04/24/84	Lee	
↓	J	4,838,289	06/13/89	Kottman et al.	
HW	K	5,102,494	04/07/92	Harvey et al.	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
HW	L	JP 2003-151948 (Patent Abstract in English provided)	05/23/03	Seiko Epson Corporation		<input type="checkbox"/>
↓	M	JP02280330 (Patent Abstract in English provided)	11/16/90	Mitsubishi Electric Corporation		<input type="checkbox"/>
↓	N	JP02309638 (Patent Abstract in English provided)	12/25/90	Fujitsu Ltd.		<input type="checkbox"/>
HW	O	JP05837190 (Patent Abstract and Summary in English provided)	03/04/83	Sonitsukusu: KK		

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
HW	P	LIM et al., "Atomic Layer deposition of transition metals", Department of Chemistry and Chemical Biology, Harvard University, Nature Publishing Group, Volume 2, November 2003, Pages 749-754
HW	Q	ICKnowledge LLC, "Technology Backgrounder: Atomic Layer Deposition", ICKnowledge.com, 2004, Pages 1-7

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/607,611
				Filing Date	June 27, 2003
				First Named Inventor	RAVKIN et al.
				Art Unit	1742
Examiner Name	Wilkins III, Harry D.				
Sheet	3	of	6	Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW	A	5,180,431	01/19/93	Sugimoto et al.	
↓	B	5,271,774	12/21/93	Leenaars et al.	
	C	5,294,257	03/15/94	Kelly et al.	
	D	5,343,234	08/30/94	Kuehnle	
	E	5,361,449	11/08/94	Akimoto	
	F	5,472,502	12/05/95	Batchelder	
	G	5,558,111	09/24/96	Lofaro	
	H	5,601,655	02/11/97	Bok et al.	
	I	5,660,642	08/26/97	Britten	
↓	J	5,705,223	01/06/98	Bunkofske	
HW	K	5,709,757	01/20/98	Hatano et al.	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
HW	L	JP08277486 (Patent Abstract in English and machine generated English translation provided)	10/22/96	Dainippon Printing Co. Ltd.		<input type="checkbox"/>
↓	M	JP11031672 (Patent Abstract in English provided)	02/02/99	Hitachi Ltd.		<input type="checkbox"/>
↓	N	JP11350169 (Patent Abstract in English and machine generated English translation provided)	12/21/99	Chemitoronics Co.		<input type="checkbox"/>
HW	O	WO 02/01613 A3	1/3/02	Applied Materials, Inc.		<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
HW	P	"Chemical vapor deposition", Wikipedia, the free encyclopedia, http://en.wikipedia.org/wiki/Chemical_vapor_deposition , 2005, Page 1-2
HW	Q	SIGMA-ALDRICH, "Atomic Layer Deposition (ALD)", http://www.sigmaaldrich.com/Area_of_Interest/Chemistry/Materials_Science/Thin_Films , 2005, Pages 1-2

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/607,611
				Filing Date	June 27, 2003
				First Named Inventor	RAVKIN et al.
				Art Unit	1742
Examiner Name	Wilkins III, Harry D.				
Sheet	4	of	6	Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW	A	5,807,522	09/15/98	Brown et al.	
	B	5,882,433	03/16/99	Ueno	
	C	5,893,004	04/06/99	Yamamura	
	D	5,945,351	08/31/99	Mathuni	
	E	5,975,098	11/02/99	Yoshitani et al.	
	F	5,989,478	11/23/99	Ouellette et al.	
	G	5,997,653	12/07/99	Yamasaka	
	H	6,086,454	07/11/00	Watanabe et al.	
	I	6,092,937	07/25/00	Snodgrass et al.	
	J	6,103,636	08/15/00	Zahorik et al.	
HW	K	6,108,932	08/29/00	Chai	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
HW	L	WO 02/101795 A3	12/19/02	Verteq, Inc.		<input type="checkbox"/>
HW	M	WO 02/32825 A1	4/25/02	The Regents of the University of California		<input type="checkbox"/>
HW	N	WO 03/014416 A2	02/20/03	Ebara Corporation		<input type="checkbox"/>
HW	O	WO 99/16109 A1	4/1/99	Interniversitair Micro-Elektronica Centrum VZW		<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	P	
	Q	

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/607,611
				Filing Date	June 27, 2003
				First Named Inventor	RAVKIN et al.
				Art Unit	1742
Examiner Name	Wilkins III, Harry D.				
Sheet	5	of	6	Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW	A	6,214,513	04/10/01	Cai et al.	
	B	6,230,722	05/15/01	Mitsumori et al.	
	C	6,398,975	06/04/02	Mertens et al.	
	D	6,417,117	07/09/02	Davis	
	E	6,433,541	08/13/02	Lehman et al.	
	F	6,474,786	11/05/02	Percin et al.	
	G	6,514,570	02/04/03	Matsuyama et al.	
	H	6,530,823	03/11/03	Goodarz et al.	
	I	6,531,206	03/11/03	Johnston et al.	
	J	6,550,988	04/22/03	Sugimoto et al.	
HW	K	6,555,017	04/29/03	Rushford et al.	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
HW	L	WO 99/49504	9/30/99	Nippon Kogaku KK		<input type="checkbox"/>
HW	M	WO 2004/030051 A2	04/08/04	Lam Research Corporation		<input type="checkbox"/>
HW	N	JP 62150828 A ((Patent Abstract in English provided))	07/04/87	Mitsubishi Electric Corporation		<input type="checkbox"/>
	O					

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	P	
	Q	

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/607,611
				Filing Date	June 27, 2003
				First Named Inventor	RAVKIN et al.
				Art Unit	1742
Examiner Name	Wilkins III, Harry D.				
Sheet	6	of	6	Attorney Docket Number	LAM2P428

U.S. Patent Documents

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW	A	6,616,772	09/09/03	De Larios et al.	
	B	6,689,323	02/10/04	Fisher et al.	
	C	6,764,720	07/20/04	Pui et al.	
	D	6,799,584	10/05/04	Yogev et al.	
	E	6,851,435	02/08/05	Mertens et al.	
	F	6,854,473	02/15/05	Hanson et al.	
	G	6,954,993	10/18/05	Smith et al.	
	H	6,988,326	01/24/06	O'Donnell et al.	
	I	6,988,327	01/24/06	Garcia et al.	
	J	7,000,622	02/21/06	Woods et al.	
HW	K	7,069,937	07/04/06	Garcia et al.	

Foreign Patent Documents

Examiner Initial	Cite No. ¹	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number- ⁴ Kind Code ⁵ (if known)				
	L					<input type="checkbox"/>
	M					<input type="checkbox"/>
	N					<input type="checkbox"/>
	O					<input type="checkbox"/>

Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	P	
	Q	

Examiner Signature	/Harry Wilkins/	Date Considered	09/08/2006
--------------------	-----------------	-----------------	------------

Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language